

Below is a presentation of current publications relevant to ART procedure outcomes associated with use of ZyMöt devices for sperm sample preparation. These publications are categorized according to the ART procedures outcomes topics shown to facilitate review of the literature by topic.

ASRM 2023

- 1 MICROFLUIDIC SPERM SELECTION (MFSS) IMPROVES EUPLOIDY RATES COMPARED TO DENSITY GRADIENT CENTRIFUGATION (DGC) ACROSS A BROADER PATIENT POPULATION THAT UTILIZED INTRACYTOPLASMIC SPERM INJECTION (ICSI).
Mahony, M., Hayward, B., Anderson, A., Angle, M., Hudson, C. Fertility and Sterility, Volume 120, Issue 4, Supplement, E3-E4, October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)00830-0/fulltext](https://www.fertstert.org/article/S0015-0282(23)00830-0/fulltext)
- 2 MICROFLUIDIC SELECTION ENHANCES CRYOSURVIVAL OF SPERMATOZOA.
Kocur, O., Xie, P., Rosenwaks, Z., Palermo, G. Fertility and Sterility, Volume 120, Issue 4, Supplement E118-E119 October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)01141-X/fulltext](https://www.fertstert.org/article/S0015-0282(23)01141-X/fulltext)
- 3 THE USE OF A NOVEL SPERM SELECTION METHOD FOR INTRAUTERINE INSEMINATION OF COUPLES WITH IDIOPATHIC INFERTILITY.
Kocur, O., De Jesus, A., Rosenwaks, Z., Palermo, G. Fertility and Sterility, Volume 120, Issue 4, Supplement E307-E308 October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)01657-6/fulltext](https://www.fertstert.org/article/S0015-0282(23)01657-6/fulltext)
- 4 DOES MICROFLUIDIC-BASED SEMEN PROCESSING IMPROVE THE FUNCTIONAL QUALITY OF RECOVERED SPERM?
Ribeiro, A., Minas, A., Barradas, V., Homsí, C., Bertolla, R., Intasqui, P. Fertility and Sterility, Volume 120, Issue 4, Supplement E5-E6 October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)00833-6/fulltext](https://www.fertstert.org/article/S0015-0282(23)00833-6/fulltext)
- 5 LIVE BIRTH RATE AFTER USING MICROFLUIDIC SPERM SEPARATION DEVICE FOR SPERM PREPARATION IN ALL IN-VITRO FERTILIZATION (IVF) AND INTRACYTOPLASMIC SPERM INJECTION (ICSI) CYCLES.
Kothamasu, V., Ulrich, N., Toppin, J., Williams, F. Fertility and Sterility, Volume 120, Issue 4, Supplement E296-E297 October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)01629-1/fulltext](https://www.fertstert.org/article/S0015-0282(23)01629-1/fulltext)
- 6 IMPROVEMENT IN SPERM DNA FRAGMENTATION INDEX IS OBSERVED AT 15 MINUTES INCUBATION TIME BUT NOT WITH LONGER INCUBATION TIMES USING THE MICROFLUIDICS SPERM SORTING SYSTEM.
Athalye, A., Naik, N., Makwana, P., Sanap, R., Tari, P., Kamath, D., Agarwal, S., Deshmukh, S., Madon, P., Parikh, F. Fertility and Sterility, Volume 120, Issue 4, Supplement E148 October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)01214-1/fulltext](https://www.fertstert.org/article/S0015-0282(23)01214-1/fulltext)
- 7 MICROFLUIDIC-BASED SPERM SELECTION: EFFECT ON SPERM DNA FRAGMENTATION AND EMBRYO DEVELOPMENT.
Pardiñas, M., de los Santos, J., Jaén, D., Bastida, A., Rivera-Egea, R., Galán, A., Insua, F., de los Santos, M. Fertility and Sterility, Volume 120, Issue 4, Supplement E294 October 2023
[https://www.fertstert.org/article/S0015-0282\(23\)01624-2/fulltext](https://www.fertstert.org/article/S0015-0282(23)01624-2/fulltext)

Clinical Pregnancy

- 1 UTILIZING SPERMATOZOA WITH THE HIGHEST GENOMIC INTEGRITY ENHANCES ICSI OUTCOME.
Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. *Fertility and Sterility* Vol. 116, E67-E68(2021).
<https://doi.org/10.1016/j.fertnstert.2021.07.190>
- 2 ICSI OUTCOMES USING SPERMATOZOA WITH OPTIMAL GENOMIC INTEGRITY
Parrella, Alessandra. ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Parrella-et-al-ASRM-2020-abstract-O-69.pdf>
- 3 SUPERIOR SPERM SELECTION? MICROFLUIDIC SPERM SORTING IMPROVES EUPLOID EMBRYO ONGOING PREGNANCY RATE COMPARED TO DENSITY GRADIENT CENTRIFUGATION
Palmerola, Katherine L. *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Palmerola-et-al-ASRM-2020-abstract-P45.pdf>
- 4 EUPLOIDY RATES AND PREGNANCY OUTCOMES USING THE ZYMOT DEVICE FOR SPERM PREPARATION
Anderson, Anthony R. *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Anderson-et-al-ASRM-2020-abstract-O-104.pdf>
- 5 COMPARISON OF MICROFLUID SPERM SORTING CHIP AND DENSITY GRADIENT METHODS FOR USE IN INTRAUTERINE INSEMINATION CYCLES
Gode, F., Bodur T., Güntürkün F., *et al.* *Fertility and Sterility*. Volume 112, Issue 5, November 2019, Pages 842-848.e1. <https://doi.org/10.1016/j.fertnstert.2019.06.037>
- 6 MICROFLUIDIC SELECTION OF SPERMATOZOA RETAINS CHROMATIN INTEGRITY AND YIELDS HIGHER PREGNANCY RATES
Parrella A., Xie P., Keating D., *et al.* ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.957>
- 7 IMPROVING PREGNANCY RATE IN IVF CYCLES BY PREPARING SPERM VIA MICROFLUIDIC SPERM CHIPS
Alagöz O., Özkara G., Koçer Yazıcı M. G., *et al.* ESHRE 2017
<https://www.zymotfertility.com/wp-content/uploads/2020/01/improving-pregnancy-rate-in-IVF-cycles-f%C4%B1%C3%A7%C4%B1c%C4%B1o%C4%9Flu-eshre-2017.pdf>
- 8 MACS Vs MICROFLUIDICS SPERM SORTING FOR RAISED SPERM DFI - A RCT
Durga Rao, Krishna Chaitanya M., Oasis Fertility – Hyderabad, India
https://academic.oup.com/humrep/article/37/Supplement_1/deac104.108/6620288
- 9 MICROFLUIDIC SPERM SELECTION DEVICE INCREASES CLINICAL PREGNANCY RATE IN IVF/PGT-A CYCLES
C.Z. Berton¹, I. Yoshida¹, P. Carvalho¹, R. Souza¹, L.D.C. Onoda¹, E.B. Cordts², C.P. Barbosa².
¹Instituto Ideia Fértil de Saúde Reprodutiva, Embryology, São Paulo, Brazil, ² Instituto Ideia Fértil de Saúde Reprodutiva, Gynecology, São Paulo, Brazil.
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.115/6619906
- 10 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL
Molly M. Quinn¹, Salustiano Ribeiro², Flor Juarez-Hernandez², Rhodel K. Simbulan², Liza Jalalian², Marcelle I. Cedars², and Mitchell P. Rosen²
¹Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, ²Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA
<https://academic.oup.com/humrep/article-abstract/37/7/1406/6581839?redirectedFrom=fulltext>

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Embryo Euploidy

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Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. Fertility and Sterility Vol. 116, P-53(2021). doi:
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- 2 UTILIZING SPERMATOZOA WITH THE HIGHEST GENOMIC INTEGRITY ENHANCES ICSI OUTCOME.
Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. Fertility and Sterility Vol. 116, E67-E68(2021). doi:
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Palmerola, Katherine L. *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Palmerola-et-al-ASRM-2020-abstract-P45.pdf>
- 5 MICROFLUIDIC SPERM SELECTION IS AN EFFECTIVE METHOD FOR IMPROVING EMBRYO DEVELOPMENTAL COMPETENCE IN IVF WITH OLDER PATIENTS
Mastunga, Rie *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Matsunaga-et-al-OCHI-YUME-Clinic-Nagoya-Japan-ASRM-2020-Poster-498.pdf>
- 6 EMBRYOLOGIC OUTCOMES IN INTRACYTOPLASMIC SPERM INJECTION (ICSI) CYCLES UTILIZING SPERM SELECTED VIA A MICROFLUIDICS DEVICE COMPARED TO STANDARD SELECTION
Godiwala, Prachi *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Godiwala-et-al-ASRM-abstract-P96.pdf>
- 7 MICROFLUIDIC DEVICE-BASED SEMEN PREPARATION INFLUENCES EUPLOIDY RATES OF HUMAN BLASTOCYSTS.
Beyhan, Z. *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Beyhan-P48.pdf>
- 8 EUPLOIDY RATES AND PREGNANCY OUTCOMES USING THE ZYMOT DEVICE FOR SPERM PREPARATION
Anderson, Anthony R. *et al.* ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Anderson-et-al-ASRM-2020-abstract-O-104.pdf>
- 9 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE
Parrella, A., Keating, D., Cheung, S. *et al.* J Assist Reprod Genet 36, 2057–2066 (2019).
<https://doi.org/10.1007/s10815-019-01543-5>
- 10 A THERAPEUTIC APPROACH FOR COUPLES WITH COMPROMISED SPERM DNA INTEGRITY AND A HISTORY OF ANEUPLOID EMBRYOS
Petrini A., Parrella A., Xie P., *et al.* ESHRE 2019
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-Sperm-DNA-Integrity-ZyMot-850.pdf>
- 11 EFFECTS OF THE MICROFLUIDIC CHIP TECHNIQUE IN SPERM SELECTION FOR INTRACYTOPLASMIC SPERM INJECTION FOR UNEXPLAINED INFERTILITY: A PROSPECTIVE, RANDOMIZED CONTROLLED TRIAL

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- Yetkinel, S., Kilicdag, E.B., Aytac, P.C. et al. J Assist Reprod Genet 36, 403–409 (2019).
<https://doi.org/10.1007/s10815-018-1375-2>
- 12 LABORATORY AND CLINICAL OUTCOMES OF SPERMATOZA PREPARED THROUGH A MICROFLUIDIC DEVICE: A PROSPECTIVE PILOT SIBLING OOCYTE STUDY
 Akcay B., Findikli N., Aksoy T., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.958>
- 13 A MICROFLUIDIC DEVICE FOR SELECTING THE MOST PROGRESSIVELY MOTILE SPERMATOZOA YIELDS A HIGHER RATE OF EUPLOID EMBRYOS
 Parrella A., Choi D., Keating D., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.955>
- 14 IMPACT OF MICROFLUIDIC SPERM SORTING ON EMBRYO QUALITY AND COMPREHENSIVE CHROMOSOME SCREENING OUTCOMES OF COUPLES WITH REPEATED IMPLANTATION FAILURE
 Pabuccu E., Pabuccu R., Sertyel S., et al. ESHRE 2018
<https://www.zymotfertility.com/wp-content/uploads/2020/01/impact-of-microfluidic-sperm-sorting-sahin-eshre-2018.pdf>
- 15 A PROPOSED METHOD TO MINIMIZE MALE GAMETE CONTRIBUTION TO ANEUPLOIDY IN THE EMBRYO COHORT
 Melnick A., Parrella A., Cheung S., et al. ESHRE 2018
<https://www.zymotfertility.com/wp-content/uploads/2020/01/proposed-method-to-minimize-palermo-eshre-2018.pdf>
- 16 DOES ZYMOT SPERM SEPARATION IMPROVE EMBRYO DEVELOPMENT OUTCOMES WHEN APPLIED TO ALL INFERTILITY PATIENTS COMPARED TO DENSITY GRADIENT WASHING OR SURGICALLY ATTAINED SPERM? Mitchel C. Schiewe, MS, PhD, Ahmad Morsi Abu Maizar, M.Sc, Melanie Nordbak, BS, Michelle Alcoer, BS, Andrew W. Dinsmore, BS, Claudia De Romana, BS, Pedro J. Toledo, BS, Kelly Baek, MD, Guy E. Ringler, MD, Korine Chung, MD, Richard Marrs, MD California Fertility Partners, Los Angeles, CA.
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1446634>
- 17 DOES MICROFLUIDIC SPERM SORTING IMPROVE EMBRYO DEVELOPMENT AND EUPLOIDY RATES IN PATIENTS UNDERGOING ICSI? Alex Robles, M.D.,¹ Evan Akiva Reshef, MD,¹ Robert W. Prosser, MSc,¹ Eric J. Forman, M.D.,² Zev Williams, M.D., PhD.¹ ¹Columbia University Fertility Center, New York, NY; ²Columbia University Fertility Center.
[https://www.fertstert.org/article/S0015-0282\(21\)00991-2/fulltext#:~:text=a%20new%20tab-,%20Conclusions,rates%20and%20higher%20euploidy%20rates.](https://www.fertstert.org/article/S0015-0282(21)00991-2/fulltext#:~:text=a%20new%20tab-,%20Conclusions,rates%20and%20higher%20euploidy%20rates.)
- 18 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE. Alessandra Parrella, Derek Keating, Stephanie Cheung, Philip Xie, Joshua D. Stewart, Zev Rosenwaks, Gianpiero D. Palermo
 Journal of Assisted Reproduction and Genetics volume 36, pages2057–2066 (2019).
<https://link.springer.com/article/10.1007/s10815-019-01543-5>
- 19 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL
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¹Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, ²Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA
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- 20 CAN A SPERM SELECTION TECHNIQUE IMPROVE EMBRYO PLOIDY?
Olena M. Kocur, Philip Xie, Stephanie Cheung, Sydney Souness, Mary McKnight, Zev Rosenwaks, Gianpiero D. Palermo
<https://doi.org/10.1111/andr.13362>
- 21 EVALUATION OF OOCYTE FERTILIZATION AND IN VITRO EMBRYO DEVELOPMENT AFTER SPERM PREPARATION USING ZYMOT PRIOR TO INTRACYTOPLASMIC SPERM INJECTION (ICSI) AND IN VITRO FERTILIZATION (IVF).
Daneshmand, S, Richter, KS, Callies, HL, Kokjohn S, Fertility and Sterility, Vol. 118, P-100 (2022).
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Fertilization / Blastulation

- 1 UTILIZING SPERMATOZOA WITH THE HIGHEST GENOMIC INTEGRITY ENHANCES ICSI OUTCOME.
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Pabuccu E., Pabuccu R., Sertyel S., et al. ESHRE 2018
<https://www.zymotfertility.com/wp-content/uploads/2020/01/impact-of-microfluidic-sperm-sorting-sahin-eshre-2018.pdf>
- 7 SPERM DNA FRAGMENTATION AND FUNCTIONAL FEATURES OF HUMAN SPERM SELECTED BY MICROFLUIDIC SORTING FOR CLINICAL USE. Nami Morishita, Ph.D., Natsumi Hyogo, M.A., Yukari Kurasaki, B.A., Rio Sakuma, M.A., Hiromi Morita, M.A., Megumi Miura, M.A, Yuki Kobayashi, B.A., Rie Matsunaga, M.A., Tomoko Maeda, Ph.D., Hiroshi Makino, Ph.D., Masanori Ochi, Ph.D., Toshitaka Horiuchi, Ph.D. OCHI YUME CLINIC NAGOYA, Nagoya, Japan. [https://www.fertstert.org/article/S0015-0282\(21\)01361-3/fulltext](https://www.fertstert.org/article/S0015-0282(21)01361-3/fulltext)
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- 9 DOES MICROFLUIDIC SPERM SORTING IMPROVE EMBRYO DEVELOPMENT AND EUPLOIDY RATES IN PATIENTS UNDERGOING ICSI? Alex Robles, M.D.,¹ Evan Akiva Reshef, MD,¹ Robert W. Prosser, MSc,¹ Eric J. Forman, M.D.,² Zev Williams, M.D., PhD.¹ ¹Columbia University Fertility Center, New York, NY; ²Columbia University Fertility Center.
[https://www.fertstert.org/article/S0015-0282\(21\)00991-2/fulltext#:~:text=a%20new%20tab,Conclusions,rates%20and%20higher%20euploidy%20rates.](https://www.fertstert.org/article/S0015-0282(21)00991-2/fulltext#:~:text=a%20new%20tab,Conclusions,rates%20and%20higher%20euploidy%20rates.)
- 10 FERTILIZATION RATE AND EMBRYONIC DEVELOPMENT AFTER INTRACYTOPLASMIC SPERM INJECTION USING A MICROFLUIDIC SPERM SELECTION DEVICE WITHOUT CENTRIFUGATION
Haruhisa Tsuji¹, Hiroya Kitasaka¹, Noritaka Fukunaga^{1,2} and Yoshimasa Asada^{1,2}

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¹ Asada Ladies Clinic, Aichi, Japan, ² Asada Institute for Reproductive Medicine, Aichi, Japan
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DNA Fragmentation – Genomic Integrity

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- 7 MICROFLUIDIC SPERM SELECTION BY THE ZYMÖT SPERM SEPARATION DEVICE CONCENTRATES SPERM WITH SIGNIFICANTLY LESS DNA DAMAGE FOR SUBSEQUENT ART PROCEDURES
Hodge D., Vermilyea M., O’Leary R., *et al.* ESHRE 2019
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Hodge-Sperm-DNA-damage.pdf>
- 8 MICROFLUIDIC SPERM SELECTION ENHANCES ICSI OUTCOMES BY SELECTING SPERMATOZOA WITH THE HIGHEST CHROMATIN INTEGRITY
Hancock K., Parrella A., Goldman M., *et al.* ESHRE 2019
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-ICSI-Outcomes.pdf>
- 9 SPERM DNA FRAGMENTATION (SDF) WAS MOST EFFECTIVELY IMPROVED BY A SPERM SEPARATION DEVICE COMPARED TO DIFFERENT GRADIENT AND SWIMUP METHODS
Broussard A., Leader B., Tirado E. *et al.* Fertility and Sterility. April 2019 Volume 111, Issue 4, Supplement, Page e15. <https://doi.org/10.1016/j.fertnstert.2019.02.054>
- 10 MICROFLUIDIC SELECTION OF SPERMATOZOA RETAINS CHROMATIN INTEGRITY AND YIELDS HIGHER PREGNANCY RATES
Parrella A., Xie P., Keating D., *et al.* ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.957>
- 11 A MICROFLUIDIC DEVICE FOR SELECTING THE MOST PROGRESSIVELY MOTILE SPERMATOZOA YIELDS A HIGHER RATE OF EUPLOID EMBRYOS
Parrella A., Choi D., Keating D., *et al.* ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.955>

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DNA Fragmentation – Genomic Integrity

- 12 MICROFLUIDIC SORTING SELECTS SPERM FOR CLINICAL USE WITH REDUCED DNA DAMAGE
Quinn M. M., Jalalian L., Ribeiro S., et al. Human Reproduction, Volume 33, Issue 8, August 2018, Pages 1388–1393. <https://doi.org/10.1093/humrep/dey239>
- 13 IMPACT OF MICROFLUIDIC SPERM SORTING ON EMBRYO QUALITY AND COMPREHENSIVE CHROMOSOME SCREENING OUTCOMES OF COUPLES WITH REPEATED IMPLANTATION FAILURE
Pabuccu E., Pabuccu R., Sertyel S., et al. ESHRE 2018
<https://www.zymotfertility.com/wp-content/uploads/2020/01/impact-of-microfluidic-sperm-sorting-sahin-eshre-2018.pdf>
- 14 SELECTION OF SPERMATOZOA WITH HIGHER CHROMATIN INTEGRITY THROUGH A MICROFLUIDICS DEVICE
Parrella A., Pereira N., Chow S., et al. ESHRE 2017
<https://www.zymotfertility.com/wp-content/uploads/2020/01/selection-of-spermatozoa-microfluidics-device-palermo-eshre-2017-1.pdf>
- 15 SELECTION OF FUNCTIONAL HUMAN SPERM WITH HIGHER DNA INTEGRITY AND FEWER REACTIVE OXYGEN SPECIES
Asghar W., Velasco V., Kingsley J.L., et al. Advanced Healthcare Materials. Volume 3, Issue 10, October 2014.
<https://doi.org/10.1002/adhm.201400058>
- 16 CAN MICROFLUIDIC SPERM SORTING HELP SEPARATION OF SPERMS WITH GOOD QUALITY DNA? Krishna Mantravadi, Sr. MBBS, PGDHOM, Masters in clinical embryology, Durga Gedela Rao, Sr. MRCOG Oasis fertility, Hyderabad, India.
[https://www.fertstert.org/article/S0015-0282\(21\)01369-8/fulltext](https://www.fertstert.org/article/S0015-0282(21)01369-8/fulltext)
- 17 SPERM DNA FRAGMENTATION AND FUNCTIONAL FEATURES OF HUMAN SPERM SELECTED BY MICROFLUIDIC SORTING FOR CLINICAL USE. Nami Morishita, Ph.D., Natsumi Hyogo, M.A., Yukari Kurasaki, B.A., Rio Sakuma, M.A., Hiromi Morita, M.A., Megumi Miura, M.A, Yuki Kobayashi, B.A., Rie Matsunaga, M.A., Tomoko Maeda, Ph.D., Hiroshi Makino, Ph.D., Masanori Ochi, Ph.D., Toshitaka Horiuchi, Ph.D. OCHI YUME CLINIC NAGOYA, Nagoya, Japan.
[https://www.fertstert.org/article/S0015-0282\(21\)01361-3/fulltext](https://www.fertstert.org/article/S0015-0282(21)01361-3/fulltext)
- 18 DOES ZYMOT SPERM SEPARATION IMPROVE EMBRYO DEVELOPMENT OUTCOMES WHEN APPLIED TO ALL INFERTILITY PATIENTS COMPARED TO DENSITY GRADIENT WASHING OR SURGICALLY ATTAINED SPERM? Mitchel C. Schiewe, MS, PhD, Ahmad Morsi Abu Maizar, M.Sc, Melanie Nordbak, BS, Michelle Alcoer, BS, Andrew W. Dinsmore, BS, Claudia De Romana, BS, Pedro J. Toledo, BS, Kelly Baek, MD, Guy E. Ringler, MD, Korine Chung, MD, Richard Marrs, MD California Fertility Partners, Los Angeles, CA.
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1446634>
- 19 MICROFLUIDIC SPERM SEPARATION DEVICE DRAMATICALLY LOWERS DFI. M. Bastuba,¹M. Cohen,¹A. Bastuba,²P. Campbell.³ ¹Male Fertility and Sexual Medicine Specialists, San Diego, CA, USA; ²Fertility Center of California, San Diego, CA, USA; ³Department of Urology, Naval Medical Center San Diego, San Diego, CA, USA.
[https://www.fertstert.org/article/S0015-0282\(20\)30188-6/fulltext](https://www.fertstert.org/article/S0015-0282(20)30188-6/fulltext)
- 20 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE. Alessandra Parrella, Derek Keating, Stephanie Cheung, Philip Xie, Joshua D. Stewart, Zev Rosenwaks, Gianpiero D. Palermo
[Journal of Assisted Reproduction and Genetics volume 36, pages2057–2066 \(2019\)](https://doi.org/10.1093/humrep/dey239)

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DNA Fragmentation – Genomic Integrity

- 21 MACS VS MICROFLUIDICS SPERM SORTING FOR RAISED SPERM DFI - A RCT
Durga Rao, Krishna Chaitanya M., Oasis Fertility – Hyderabad, India
https://academic.oup.com/humrep/article/37/Supplement_1/deac104.108/6620288
- 22 MALE AGE IS ASSOCIATED WITH SPERM DNA INTEGRITY: SELECTION OF HIGH DNA INTEGRITY SPERM BY MICROFLUIDICS SORTING IS CRITICAL TO CLINICAL OUTCOMES IN OLDER PATIENTS
Nami Morishita, Megumi Miura, Yuki Kobayashi, Rie Matsunaga, Tomoko Maeda, Masanori Ochi, Toshitaka Horiuchi, Ochi Yume Clinic Nagoya, Nagoya, Japan
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.036/6619771
- 23 ASSESSING THE INTEGRITY OF THE MALE GAMETE GENOME TO IMPROVE ART CLINICAL OUTCOMES
Kocur OM., Xie P., Sung C., Souness S., Rosenwaks Z., Palermo GD., Ronald O. Perelman and Claudia Cohen
Center for Reproductive Medicine, New York, New York USA
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.067/6620626
- 24 MICROFLUIDIC-BASED DEVICE SELECTS SPERM WITH LESS DNA DAMAGE AND HIGHER MOTILITY, WHAT ELSE?
Pardiñas ML.¹, De los Santos JM.², Viloria T.², Ortega-Jaen D.¹, Martin A.¹, Rivera-Egea R.², De los Santos MJ.^{1,2}, ¹IVI Foundation-IIS La Fe, Research and Innovation, Valencia, Spain, ²IVI RMA Valencia, IVF Laboratory, Valencia, Spain.
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.078/6620717
- 25 GENOTYPIC SPERM SORTING: A LESS INVASIVE “ART” TO PREVENT GENETIC DISORDERS IN NEWBORNS
^{*1,3}Olumide O. Adenmosun, PhD, MBA (oadenmos@fau.edu) ²Waseem Asghar, PhD, ³Michael Matilsky, PhD, HCLD and ¹James Kumi-Diaka, DVM, PhD, ¹Florida Atlantic University, Biological Sciences, Davie, USA, ²Florida Atlantic University, Electrical Engineering and Computer Science, Boca Raton, USA, ³Boca Fertility, Andrology/Embryology Laboratory, Boca Raton, USA
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.086/6620459
- 26 SPERM DNA INTEGRITY AND MALE INFERTILITY: A NARRATIVE REVIEW AND GUIDE FOR THE REPRODUCTIVE PHYSICIANS
Farkouh A, Salvio G, Kuroda S, Saleh R, Vogiatzi P, Agarwal A. Transl Androl Urol 2022;11(7):1023-1044. DOI: 10.21037/TAU-22-149
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9360512/>
- 27 CAN A SPERM SELECTION TECHNIQUE IMPROVE EMBRYO PLOIDY?
Olena M. Kocur, Philip Xie, Stephanie Cheung, Sydney Souness, Mary McKnight, Zev Rosenwaks, Gianpiero D. Palermo
<https://doi.org/10.1111/andr.13362>
- 28 RAISED SPERM DNA FRAGMENTATION INDEX, IS THERE AN EFFICIENT INTERVENTION TO OPTIMIZE REPRODUCTIVE OUTCOMES? – A FOUR ARM RANDOMIZED CONTROL TRIAL. Mantravadi, K, Rao, DG, J Kumar, J, Veera, M, Sunanda, P. Fertility and Sterility, Vol. 118, P-455. (2022).
<https://doi.org/10.1016/j.fertnstert.2022.09.055>
- 29 OPTIMAL INTERVENTION TO OBTAIN SPERMS WITH GOOD DNA QUALITY – ROLE OF MACS VS MICROFLUIDICS IN SPERM SORTING
Mantravadi K, Tayawade AV, Rao DG Fertility and Sterility Vol. 18, P.92 (2022).
<https://doi.org/10.1016/j.fertnstert.2022.08.434>

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Centrifugation / Density Gradient Centrifugation

- 1 SPERM DNA FRAGMENTATION (SDF) WAS MOST EFFECTIVELY IMPROVED BY A SPERM SEPARATION DEVICE COMPARED TO DIFFERENT GRADIENT AND SWIMUP METHODS
Broussard A., Leader B., Tirado E. et al. Fertility and Sterility. April 2019 Volume 111, Issue 4, Supplement, Page e15. <https://doi.org/10.1016/j.fertnstert.2019.02.054>
- 2 MICROFLUIDIC SORTING SELECTS SPERM FOR CLINICAL USE WITH REDUCED DNA DAMAGE
Quinn M. M., Jalalian L., Ribeiro S., et al. Human Reproduction, Volume 33, Issue 8, August 2018, Pages 1388–1393. <https://doi.org/10.1093/humrep/dey239>
- 3 DOES ZYMOT SPERM SEPARATION IMPROVE EMBRYO DEVELOPMENT OUTCOMES WHEN APPLIED TO ALL INFERTILITY PATIENTS COMPARED TO DENSITY GRADIENT WASHING OR SURGICALLY ATTAINED SPERM? Mitchel C. Schiewe, MS, PhD, Ahmad Morsi Abu Maizar, M.Sc, Melanie Nordbak, BS, Michelle Alcoer, BS, Andrew W. Dinsmore, BS, Claudia De Romana, BS, Pedro J. Toledo, BS, Kelly Baek, MD, Guy E. Ringler, MD, Korine Chung, MD, Richard Marrs, MD California Fertility Partners, Los Angeles, CA.
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1446634>
- 4 FERTILIZATION RATE AND EMBRYONIC DEVELOPMENT AFTER INTRACYTOPLASMIC SPERM INJECTION USING A MICROFLUIDIC SPERM SELECTION DEVICE WITHOUT CENTRIFUGATION
Haruhisa Tsuji¹, Hiroya Kitasaka¹, Noritaka Fukunaga^{1,2} and Yoshimasa Asada^{1,2}
¹ Asada Ladies Clinic, Aichi, Japan, ² Asada Institute for Reproductive Medicine, Aichi, Japan
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.045/6620379
- 5 ASSESSING THE INTEGRITY OF THE MALE GAMETE GENOME TO IMPROVE ART CLINICAL OUTCOMES
Kocur OM., Xie P., Sung C., Souness S., Rosenwaks Z., Palermo GD., Ronald O. Perelman and Claudia Cohen
Center for Reproductive Medicine, New York, New York USA
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.067/6620626
- 6 MICROFLUIDIC-BASED DEVICE SELECTS SPERM WITH LESS DNA DAMAGE AND HIGHER MOTILITY, WHAT ELSE?
Pardiñas ML.¹, De los Santos JM.², Vilorio T.², Ortega-Jaen D.¹, Martin A.¹, Rivera-Egea R.², De los Santos MJ.^{1,2}, ¹IVI Foundation-IIS La Fe, Research and Innovation, Valencia, Spain, ²IVI RMA Valencia, IVF Laboratory, Valencia, Spain.
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.078/6620717
- 7 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL
Molly M. Quinn¹, Salustiano Ribeiro², Flor Juarez-Hernandez², Rhodel K. Simbulan², Liza Jalalian², Marcelle I. Cedars², and Mitchell P. Rosen²
¹Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, ²Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA
<https://academic.oup.com/humrep/article-abstract/37/7/1406/6581839?redirectedFrom=fulltext>
- 8 SPERM PARAMETERS AMONG SEMEN SAMPLES PROCESSED BY MICROFLUIDICS COMPARED TO DENSITY GRADIENT CENTRIFUGATION (DGC): A SECONDARY ANALYSIS OF A DOUBLE-BLINDED PROSPECTIVE RANDOMIZED TRIAL.
Godiwala PN, Kwieraga JL, Almanza E, Grow DR, Bartolucci A, Engmann L. Fertility and Sterility Vol. 18, P.98 (2022).
<https://doi.org/10.1016/j.fertnstert.2022.08.439>
- 9 MICROFLUIDIC SPERM SORTING COMPARED WITH TRADITIONAL DENSITY GRADIENT CENTRIFUGATION: A COST ANALYSIS. Ogbejesi, C, Koniaries K, Godiwala, PN, Grow, DR, Engmann, L, Benadiva, CA, Bartolucci A. Fertility and Sterility Vol. 18, P.78 (2022).
<https://doi.org/10.1016/j.fertnstert.2022.08.418>

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Reactive Oxygen Species (ROS) / Cellular Stress

- 1** SPERM DNA FRAGMENTATION (SDF) WAS MOST EFFECTIVELY IMPROVED BY A SPERM SEPARATION DEVICE COMPARED TO DIFFERENT GRADIENT AND SWIMUP METHODS
Broussard A., Leader B., Tirado E. et al. Fertility and Sterility. April 2019 Volume 111, Issue 4, Supplement, Page e15. <https://doi.org/10.1016/j.fertnstert.2019.02.054>
- 2** SELECTION OF FUNCTIONAL HUMAN SPERM WITH HIGHER DNA INTEGRITY AND FEWER REACTIVE OXYGEN SPECIES
Asghar W., Velasco V., Kingsley J.L., et al. Advanced Healthcare Materials. Volume 3, Issue 10, October 2014. <https://doi.org/10.1002/adhm.201400058>
- 3** MICROFLUIDIC SPERM SEPARATION DEVICE DRAMATICALLY LOWERS DFI. M. Bastuba,¹M. Cohen,¹A. Bastuba,²P. Campbell.³ ¹Male Fertility and Sexual Medicine Specialists, San Diego, CA, USA; ²Fertility Center of California, San Diego, CA, USA; ³Department of Urology, Naval Medical Center San Diego, San Diego, CA, USA. [https://www.fertstert.org/article/S0015-0282\(20\)30188-6/fulltext](https://www.fertstert.org/article/S0015-0282(20)30188-6/fulltext)

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Patient Outcomes

- 1 COMPARISON OF MICROFLUIDIC SPERM SORTING CHIP AND DENSITY GRADIENT METHODS FOR USE IN INTRAUTERINE INSEMINATION CYCLES
Gode, F., Bodur T., Güntürkün F., et al. Fertility and Sterility. Volume 112, Issue 5, November 2019, Pages 842-848.e1. <https://doi.org/10.1016/j.fertnstert.2019.06.037>
- 2 UTILIZING SPERMATOZOA WITH THE HIGHEST GENOMIC INTEGRITY ENHANCES ICSI OUTCOME.
Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. Fertility and Sterility Vol. 116, E67-E68(2021). doi: <https://doi.org/10.1016/j.fertnstert.2021.07.190>
- 3 ICSI OUTCOMES USING SPERMATOZOA WITH OPTIMAL GENOMIC INTEGRITY
Parrella, Alessandra. ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Parrella-et-al-ASRM-2020-abstract-O-69.pdf>
- 4 EUPLOIDY RATES AND PREGNANCY OUTCOMES USING THE ZYMOT DEVICE FOR SPERM PREPARATION
Anderson, Anthony R. et al. ASRM 2020
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Anderson-et-al-ASRM-2020-abstract-O-104.pdf>
- 5 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE
Parrella, A., Keating, D., Cheung, S. et al. J Assist Reprod Genet 36, 2057–2066 (2019).
<https://doi.org/10.1007/s10815-019-01543-5>
- 6 A THERAPEUTIC APPROACH FOR COUPLES WITH COMPROMISED SPERM DNA INTEGRITY AND A HISTORY OF ANEUPLOID EMBRYOS
Petrini A., Parrella A., Xie P., et al. ESHRE 2019
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-Sperm-DNA-Integrity-ZyMot-850.pdf>
- 7 LABORATORY AND CLINICAL OUTCOMES OF SPERMATOZA PREPARED THROUGH A MICROFLUIDIC DEVICE: A PROSPECTIVE PILOT SIBLING OOCYTE STUDY
Akçay B., Findikli N., Aksoy T., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.958>
- 8 MALE AGE IS ASSOCIATED WITH SPERM DNA INTEGRITY: SELECTION OF HIGH DNA INTEGRITY SPERM BY MICROFLUIDICS SORTING IS CRITICAL TO CLINICAL OUTCOMES IN OLDER PATIENTS
Nami Morishita, Megumi Miura, Yuki Kobayashi, Rie Matsunaga, Tomoko Maeda, Masanori Ochi, Toshitaka Horiuchi, Ochi Yume Clinic Nagoya, Nagoya, Japan
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.036/6619771
- 9 OPTIMIZING SPERM SELECTION AND REPRODUCTIVE OUTCOMES BY MICROFLUIDICS FOR COUPLES WITH RAISED DFI
G. Gedela, Durga Rao, Krishna Chaitanya M., Oasis Fertility – Hyderabad, India
https://academic.oup.com/humrep/article/37/Supplement_1/deac107.005/6619929
- 10 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL
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¹Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, ²Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA
<https://academic.oup.com/humrep/article-abstract/37/7/1406/6581839?redirectedFrom=fulltext>

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